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ABSTRACT

A compact lighting device including a light concentrating reflector directing light emitted by a light source towards a curved light refracting surface where it is refracted and thereby redirected. The light reflecting surface is contoured to direct the reflected light to converge towards one or more points not coincident with a reference axis. The light is, through reflection, additionally directed to converge towards the reference axis. The light refracting surface is contoured and positioned to cooperate with the contour of the light concentrating reflector such that after passing through the refracting surface the emerging light forms a light beam concentrated about the reference plane. An optional light refracting lens can be included to compliment the reflector and refractor combination by redirecting forward light emitted by the light source to further increase the intensity of the concentrated light beam.

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